	Application No.	Applicant(s)		
Mation of Allamability	09/454,057	DOERENBERG ET	AL.	
Notice of Allowability	Examiner	Art Unit		
	Chau Nguyen	2176		
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS	
1. This communication is responsive to <u>11/13/2006</u> .				
2. The allowed claim(s) is/are <u>1,2,4,5,9-15 and 30</u> .			(
 Acknowledgment is made of a claim for foreign priority una)	be been received. be been received in Application No cuments have been received in this i	national stage applica		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	es reason(s) why the oath or declara		OTICE OF	
 5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date 	on's Patent Drawing Review (PTO-		ı	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the drawir he header according to 37 CFR 1.121(c	ngs in the front (not the	back) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. I AL MATERIAL.	Note the	
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Attachment(s)				
1. Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	, ,		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./Mail Dat	 Interview Summary (PTO-413), Paper No./Mail Date <u>02/01/2007</u>. Examiner's Amendment/Comment 		
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date				
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Stateme	8. Examiner's Statement of Reasons for Allowance		
	9.	Heather R. Her Supervisory Patent Technology Cent	Examiner	

Application/Control Number: 09/454,057

Art Unit: 2176

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's representative, Mr. Michael Smith on February 1, 2007.

The application has been amended as follows:

1. (Previously Presented): A network topology backplane bus architecture comprising:

four independent data communication lines;

a plurality of processing nodes sharing said independent data communication lines for data communication;

one or more of said processing nodes associated with a first enclosure being normally connected for transmitting on first and second of said data communication lines and being normally connected for receiving on all of said data communication lines, wherein the one or more of said processing nodes associated with a first enclosure does not transmit on third and fourth of said data communication lines; and

one or more other processing nodes associated with a second enclosure being normally connected for transmitting on third and fourth of said data lines and being

Application/Control Number: 09/454,057 Page 3

Art Unit: 2176

normally connected for receiving on all of said data lines, wherein the one or more of said other processing nodes associated with a second enclosure does not transmit on the first and second data communication lines.

2. (Previously Presented): The network topology backplane bus architecture recited in claim 1, wherein the first and third independent data communication lines comprises a first independent data communication network and the second and fourth independent data communication lines comprise a second independent data communication network.

3. (Canceled)

- 4. (Previously Presented): The network topology backplane bus architecture recited in claim 1, wherein said processing nodes associated with the first enclosure utilize at least one of said first and second data communication lines for local communication with other nodes associated with the first enclosure.
- 5. (Previously Presented): The network topology backplane bus architecture recited in claim 4, wherein said processing nodes associated with the first enclosure utilize at least one of said first and second data communication lines for broadcasting transmissions to processing nodes associated with the second enclosure.

6-8. (Canceled)

9. (Previously Presented): The network topology backplane bus architecture recited in claim 5, wherein each of plurality of processing nodes associated with the first enclosure time-shares at least one of said first and second data communication lines with the other processing nodes associated with the first enclosure.

Page 4

Application/Control Number: 09/454,057

Art Unit: 2176

10. (Previously Presented): The network topology backplane bus architecture recited in claim 9, wherein timesharing said data communication lines is synchronized.

- 11. (Previously Presented): The network topology backplane bus architecture recited in claim 5, wherein said processing nodes associated with the second enclosure utilize at least one of said third and fourth data communication lines for local communication with other nodes associated with the first enclosure.
- 12. (Previously Presented): The network topology backplane bus architecture recited in claim 11, wherein said processing nodes associated with the second enclosure utilize at least one of said third and fourth data communication lines for broadcasting transmissions to processing nodes associated with the first enclosure.
- 13. (Original): The network topology backplane bus architecture recited in claim 12, wherein ones of said processing nodes supports different ones of flight critical functions.
- 14. (Original): The network topology backplane bus architecture recited in claim 13, wherein one or more of said processing nodes supporting one of said flight critical functions is duplicated in one or more additional ones of said processing nodes.
- 15. (Previously Presented): The network topology backplane bus architecture recited in claim 14, wherein one of said processing nodes supporting said one of said flight critical functions is located in the first enclosure; and at least one of said additional processing nodes supporting said one of said flight critical functions is located in the second enclosure.

16-29. (Canceled)

Application/Control Number: 09/454,057 Page 5

Art Unit: 2176

30. (Currently Amended): A method of sharing independent data communication

lines for fault tolerant data communication among a plurality of processing nodes, the

method comprising:

permitting one or more first processing nodes associated with a first enclosure

transmitting privileges on a first and a second data communication lines;

permitting one or more second processing nodes associated with a second

enclosure transmitting privileges on a third and a fourth data communication lines; and

providing all the nodes receiving privileges on all of the data communication

lines,

wherein the transmitting privileges are not permitted for the one or more first

processing nodes on the first and second third and fourth data communication lines and

the transmitting privileges are not permitted for the one or more second processing

nodes on the third and fourth first and second data communication lines.

31-34. (Canceled)

Heather R. Herndon
Supervisory Patent Examiner
Technology Center 2100